

# **Intel® Server System S7000FC4UR**

## ***Power Cord Enabling Specification***

**Revision 1.0**

**January, 2007**

**Enterprise Platforms and Services Division - Marketing**

## Revision History

| Date          | Revision Number | Modifications    |
|---------------|-----------------|------------------|
| January, 2007 | 1.0             | Initial release. |

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# 1. Introduction

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This document helps customers procure power cords for the Intel® Server System S7000FC4UR.

This information is available for each power cord by geographical region:

- Component description and function
- Part numbers and revision levels
- Vendor contact information

## 2. Power Cord Specifications

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The Intel® Server System S7000FC4UR does not include power cordsets for the two 1570-watt power supplies because of the unique requirements and differing AC services in regions where the system may be shipped.

The maximum input/output power expectations of the server system are:

- System power input: 80% efficiency at 90-240 VAC
- System power output: 1570 Watt

### 2.1 1570 Watt Power Supply Specifications

The AC input specifications of the 1570-watt power supply are:

| Parameter                 | Minimum | Nominal | Maximum | Unit               |
|---------------------------|---------|---------|---------|--------------------|
| Input Voltage (Low Line)  | 90      | 100-127 | 140     | VAC <sub>rms</sub> |
| Input Voltage (High Line) | 180     | 200-240 | 264     | VAC <sub>rms</sub> |
| Input Current (90VAC)     |         |         | 14.4    | A <sub>rms</sub>   |
| Input Current (103.5VAC)  |         |         | 14.4    | A <sub>rms</sub>   |
| Input Current (180VAC)    |         |         | 11.1    | A <sub>rms</sub>   |

The AC inlet connector is an IEC320 C14 receptacle (rated for 15A, 250VAC).

## 2.2 Cord and Service

The following criteria should be used for the wire cord and AC service selection for the Intel® Server System S7000FC4UR. Verified your selection for the safety requirements of each application with a certified safety and regulatory professional.

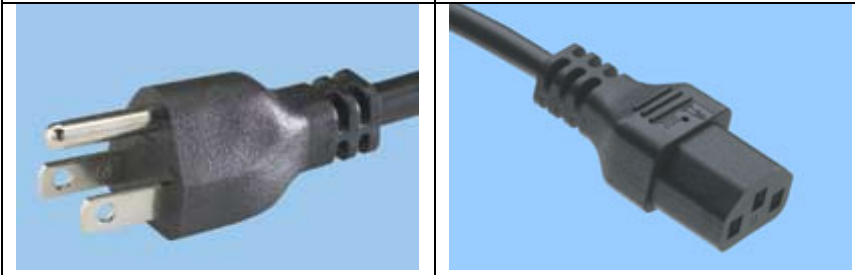
- In North America, the cord must be UL Listed/CSA Certified, 16/3, type SJT/SO, with NEMA 6-15P or equivalent attachment plug and IEC 320 C13 plug outlet.
- Outside of North America, the cord must be flexible VDE certified or HAR rated 250V, 3 x 1mm minimum conductor size with IEC 320 C13 outlet, and rated for no less than the product ratings. The AC wall attachment plug shall be a three conductor grounding type, rated at 125% of the total input current rating and must be for the configuration of the specific region or country. The AC wall attachment plug must bear at least an accepted safety agency certification mark for the specific region or country.
- The cord must be no longer than 4.5 meters (14.76 feet).
- Do not attempt to modify or use an AC power cord that is not the exact type required.

## 3. Power Supply Cordsets

The vendor information below helps you identify a supplier for a suitable power cordset. The selections are assembled cordsets, not raw parts. Check your power source electrical outlets to determine suitability and verify the safety requirements of each application with a certified safety and regulatory professional.

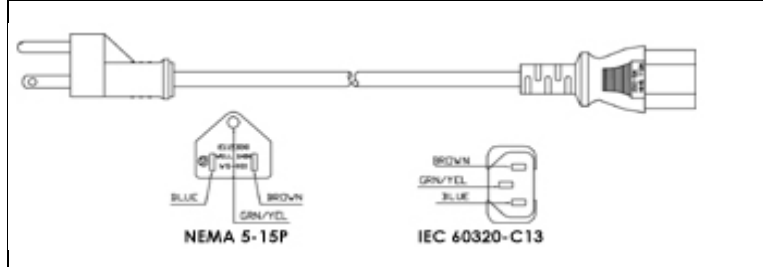
### 3.1 North American Power Supply Cordsets

**Table 1. Interpower Corporation North American Cordset**

|  |   |
|--|---|
| Part Number  | 86221590  |
| Contact Telephone Number   | 1-800-662-2290  |
| Vendor Website   | <a href="http://www.interpower.com/">http://www.interpower.com/</a> |
| Equipment End  | IEC 60320 C13   |
| Supply End   | NEMA 5-15   |
| Current Rating   | 15 A  |
| Voltage Rating   | 125 VAC   |
| Length   | 2.5 meters  |
|  |   |

**Table 2. Quail Electronics North American Cordset**

|                          |   |
|--------------------------|---|
| Part Number              | 5041.072  |
| Contact Telephone Number | 1-925-373-6700  |
| Vendor Website           | <a href="http://www.quail.com/">http://www.quail.com/</a> |
| Equipment End            | IEC 60320 C13   |
| Supply End               | NEMA6-15P   |
| Current Rating           | 15 A  |
| Voltage Rating           | 125 VAC   |
| Length                   | 6 feet  |



### 3.2 European Power Supply Cordsets

**Table 3. Interpower Corporation Continental Europe Cordset**

|                          |   |
|--------------------------|---|
| Part Number              | 86231530  |
| Contact Telephone Number | 44 (0) 1908 327700  |
| Vendor Website           | <a href="http://www.interpower.com/">http://www.interpower.com/</a> |
| Equipment End            | IEC 60320 C13   |
| Supply End               | CEE 7/7   |
| Current Rating           | 10 A  |
| Voltage Rating           | 250 VAC   |
| Length                   | 3.5 meters  |
|                          |   |



**Table 4. Quail Electronics Continental Europe Cordset**

|                          |   |
|--------------------------|---|
| Part Number              | 8500.098  |
| Contact Telephone Number | 011-1-800-669-8090  |
| Vendor Website           | <a href="http://www.quail.com/">http://www.quail.com/</a> |
| Equipment End            | IEC 60320 C13   |
| Supply End               | CEE 7/7 (Schuko)  |
| Current Rating           | 10 A  |
| Voltage Rating           | 250 VAC   |
| Length                   | 2.5 meters  |

The diagram shows a cordset with a CEE 7/7 European Plug (Schuko) on the supply end and an IEC 60320-C13 connector on the equipment end. The Schuko plug is shown with three terminals: Brown, Green/Yellow, and Blue. The IEC connector is shown with three terminals: Brown, Green/Yellow, and Blue.

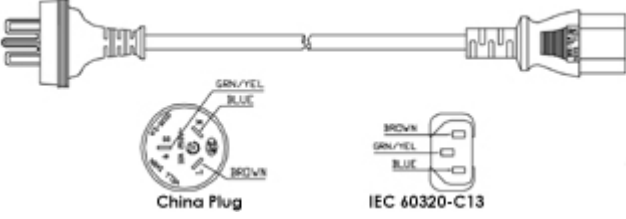
### 3.3 Chinese Power Supply Cordsets

**Table 5. Interpower Corporation Chinese Cordset**

|                          |   |
|--------------------------|---|
| Part Number              | 86517040  |
| Contact Telephone Number | 44 (0) 1908 327700  |
| Vendor Website           | <a href="http://www.interpower.com/">http://www.interpower.com/</a> |
| Equipment End            | IEC 60320 C13   |
| Supply End               | GB 2099-1-1996  |
| Current Rating           | 10 A  |
| Voltage Rating           | 250 VAC   |
| Length                   | 2.5 meters  |
|                          |   |
|                          |   |

**Table 6. Quail Electronics Chinese Cordset**

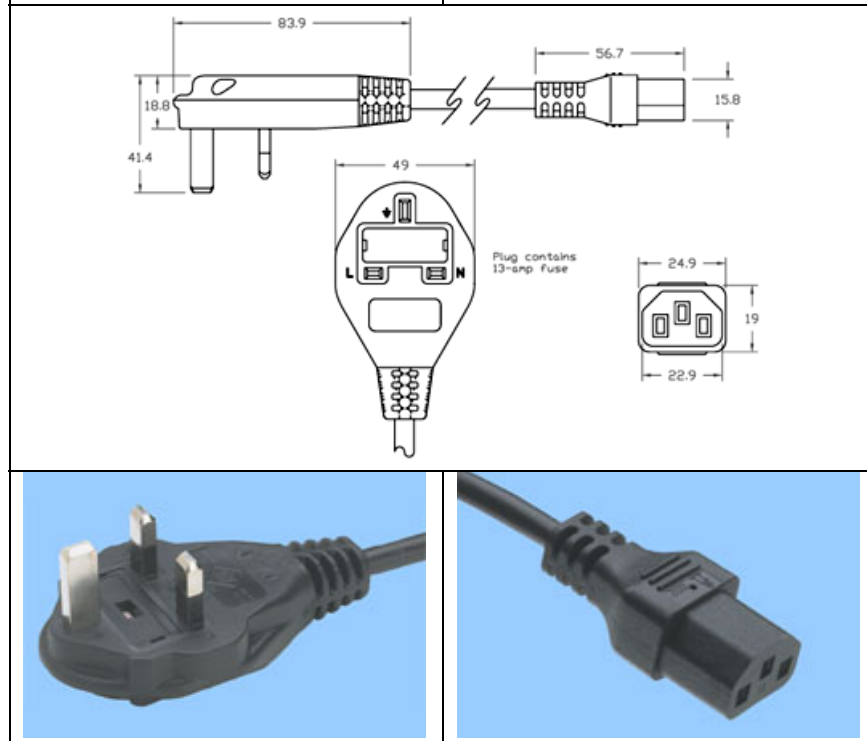
|                          |   |
|--------------------------|---|
| Part Number              | 8590.098  |
| Contact Telephone Number | 011-1-800-669-8090  |
| Vendor Website           | <a href="http://www.quail.com/">http://www.quail.com/</a> |
| Equipment End            | IEC 60320 C13   |
| Supply End               | GB 2099-1-1996  |
| Current Rating           | 10 A  |
| Voltage Rating           | 250 VAC   |
| Length                   | 2.5 meters  |



### 3.4 United Kingdom Power Supply Cordsets

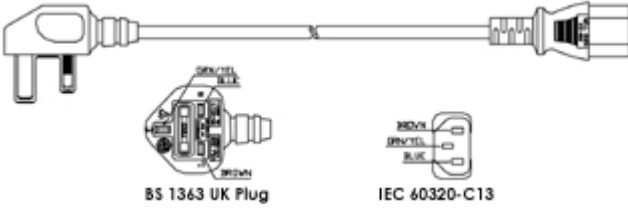
**Table 7. Interpower Corporation United Kingdom Cordset**

|                          |   |
|--------------------------|---|
| Part Number              | 86240080  |
| Contact Telephone Number | 44 (0) 1908 327700  |
| Vendor Website           | <a href="http://www.interpower.com/">http://www.interpower.com/</a> |
| Equipment End            | IEC 60320 C13   |
| Supply End               | U.K. Plug BS 1363   |
| Current Rating           | 10 A  |
| Voltage Rating           | 250 VAC   |
| Length                   | 3.5 meters  |



**Table 8. Quail Electronics United Kingdom Cordset**

|                          |   |
|--------------------------|---|
| Part Number              | 9650.098  |
| Contact Telephone Number | 011-1-800-669-8090  |
| Vendor Website           | <a href="http://www.quail.com/">http://www.quail.com/</a> |
| Equipment End            | IEC 60320 C13   |
| Supply End               | U.K. Plug BS 1363   |
| Current Rating           | 10A   |
| Voltage Rating           | 250VAC  |
| Length                   | 2.5 meters  |



The diagram shows a cordset with a BS 1363 UK Plug on the left and an IEC 60320-C13 connector on the right. Below the main diagram are two detailed views: the BS 1363 UK Plug and the IEC 60320-C13 connector.